

In the Claims:

Please cancel claims 24 and 26-29 as being directed to a non-elected invention, cancel claims 22, 30 and 31, without prejudice, and amend claim 15 as follows:

C1
15. (Amended) A method for modulating fertility in a subject comprising contacting MSH5 or a cell expressing MSH5 with a compound in an amount sufficient to modulate MSH5 expression or activity, thereby modulating fertility in a subject. *→ only show contraception (p. 3, l. 10)*

Please add new claims 32, 33, and 34 as follows:

C2
32. (New) A method for inhibiting MSH5 expression or activity in a subject comprising administering to said subject an effective amount of an inhibitor of MSH5 expression or activity, thereby inhibiting MSH5 expression or activity in a subject.

33. (New) A method for preventing fertilization in a subject by administering to said subject an effective amount of an inhibitor of MSH5 expression or activity, thereby preventing fertilization in a subject.

34. (New) A method for modulating meiosis in a subject comprising administering to said subject an effective amount of an inhibitor of MSH5 expression or activity, thereby modulating meiosis in a subject. *→ only show disrupting (fig. 4)*